

ASSIGNED
Nº 47168

APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office. AUG 1 8 1983

Returned to applicant for correction. _____

Corrected application filed. _____

Map filed. AUG 1 8 1983 under 47166

The applicant Munson Geothermal, Inc.

1380 Lawrence Suite 1290, of Denver,
Street and No. or P.O. Box No. City or Town

Colorado 80202, hereby make S application for permission to appropriate the public
State and Zip Code No.

waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.) December 20, 1982 Delaware

1. The source of the proposed appropriation is Underground (MGI No. 3)
Name of stream, lake, spring, underground or other source

2. The amount of water applied for is 5.0 CFS (see remarks) second-feet
One second-foot equals 448.83 gals. per min.

(a) If stored in reservoir give number of acre-feet. _____

3. The water to be used for Industrial and domestic
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.

4. If use is for:

(a) Irrigation, state number of acres to be irrigated: _____

(b) Stockwater, state number and kinds of animals to be watered: _____

(c) Other use (describe fully under "No. 12. Remarks") _____

(d) Power:

(1) Horsepower developed. _____

(2) Point of return of water to stream. _____

5. The water is to be diverted from its source at the following point: within the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 12,
Describe as being within a 40-acre subdivision of public
T.22N., R.26E., MDM, or at a point from which the South $\frac{1}{4}$ corner of said
survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.
Section 12 bears S.32°54'19"E. 1214.91 feet.

6. Place of use Within Section 12, T.22N., R.26E., MDM.
Describe by legal subdivision. If on unsurveyed land, it should be so stated.

7. Use will begin about January 1 and end about December 31, of each year.
Month and Day Month and Day

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) Drill Geothermal well 1000' to 3000' deep, with 50' of 30" conductor casing, 18" casing from surface to 600' and 14" production liner from 500' to bottom, install pump and piping.
State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.

9. Estimated cost of works \$150,000

10. Estimated time required to construct works. three years
 If well completed, describe works.
11. Estimated time required to complete the application of water to beneficial use. seven years
12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

This application is made to provide production water and cooling water for a geothermal power plant and associated uses. Water from this well will be comingled with other geothermal wells and be fed through the plant and its cooling tower and then recharged back into the ground water system. The estimated combined withdrawal for this well together with those drilled under Applications 47166 and 47167 is 3700 acre feet per year. The estimated combined consumptive use is 820 acre feet per year.

By s/Stephen M. Munson, President
1380 Lawrence Suite 1290
Denver, Colorado 80202

Compared bl/bc js/bc

Protested 10/17/83 by Geothermal Food Processors, Inc.
 Pro. overruled 12/20/85, Ruling #3294

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of geothermal fluid herein granted is only a temporary allowance and that the final right obtained under this permit will be dependent upon the amount actually placed to beneficial use. It is also understood that this right must allow for a reasonable decrease of fluid pressure and heat. The well shall be equipped and maintained to prevent any waste of the geothermal fluid. Accurate measurements must be kept of discharge of the production and the amount of fluid injected into the injection well to determine the total amount of fluid consumed for a beneficial use.

The production and injection well are to be cemented from the producing levels to the surface to protect fresh water zones. This permit is issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes and fresh, cold water aquifers are not to be diverted. The used geothermal fluids are to be returned to the source via the injection well. The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies. A detailed log on the injection well and/or other analyses of the system used for returning the used geothermal to the source must be submitted together with the Proof of Completion.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 5.0 cubic feet per second, but not to exceed a total withdrawal of 2467 acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before December 23, 1987

Proof of completion of work shall be filed before January 23, 1988

Application of water to beneficial use shall be made on or before December 23, 1992

Proof of the application of water to beneficial use shall be filed on or before January 23, 1993

Map in support of proof of beneficial use shall be filed on or before _____

Completion of work filed _____ IN TESTIMONY WHEREOF, I PETER G. MORROS,
 State Engineer of Nevada, have hereunto set my hand and the seal of
 Proof of beneficial use filed _____ my office, this 23rd day of December,
 Cultural map filed _____

Certificate No. _____ Issued _____

A.D. 1985

State Engineer

(PERMIT TERMS CONTINUED)

An annual report for this well must be filed under this permit describing the amount of geothermal fluid consumed to a beneficial use for the calendar year. This report must also detail the amount of fluid produced and injected.

The total combined withdrawal of the geothermal fluid under Permits 47166 and 47168 shall be limited to 2467 acre-feet per year but the total consumptive use of the geothermal fluid is limited to only incidental fluid losses in the system and in no case shall it amount to more than 20% of the volume withdrawn annually. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto. This permit is further issued subject to the provisions of NRS 533.372(1) and with the understanding that the power or energy generated by the beneficial use of this water or steam is subject to recapture and use within the boundaries of the State of Nevada when the need arises. This permit is further subject in the terms and conditions of the State Engineer's Ruling # 3294 in the matter dated December 20, 1985.

This Permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal, and local agencies.